

[NO_x, Hg, AND SO₂ REMOVAL USING ALKALI HYDROXIDE]

Abstract of Disclosure

A process and apparatus for removing SO₂, NO, and NO₂ from a gas stream having the steps of oxidizing a portion of the NO in the flue gas stream to NO₂, scrubbing the SO₂, NO, and NO₂ with an alkali scrubbing solution, and removing any alkali aerosols generated by the scrubbing in a wet electrostatic precipitator. The process can also remove Hg by oxidizing it to oxidized mercury and removing it in the scrubbing solution and wet electrostatic precipitator. Alkali sulfates, which are valuable fertilizers, can be withdrawn from the scrubbing solution.

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Figures

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